

List of Publications

Pekka T. Verronen
5th September 2023

Publication list also at <https://www.webofscience.com/wos/author/record/G-6658-2014>
(most recent publications might not be registered yet)

1. Kalakoski, N., Verronen, P.T., Szlag, M.E., and Jackman, C.H., Global ozone loss following extreme solar proton storms based on the July 2012 coronal mass ejection, *Nature Sci. Rep.*, *13*, 13873, <https://doi.org/10.1038/s41598-023-40129-1>, 2023.
2. Sarris T., Palmroth M., Aikio A., Buchert S.C., Clemmons J., Clilverd M., Dandouras I., Doornbos E., Goodwin L.V., Grandin M., Heelis R., Ivchenko N., Moretto-Jørgensen T., Kervalishvili G., Knudsen D., Liu H.L., Lu G., Malaspina D.M., Marghito O., Maute A., Miloch W.J., Olsen N., Pfaff R., Stolle C., Talaat E., Thayer J., Tourgaidis S., **Verronen, P.T.**, and Yamauchi M., Plasma-neutral interactions in the lower thermosphere-ionosphere: The need for in situ measurements to address focused questions, *Front. Astron. Space Sci.*, *9*:1063190, <https://doi.org/10.3389/fspas.2022.1063190>, 2023.
3. Nilsen, K., A. Kero, **P.T. Verronen**, M.E. Szlag ,Satellite-Borne Observations of Ozone Impact by the November 2001 Solar Proton Event, *J. Geophys. Res. Atmos.*, *127*, e2022JD036904, <https://doi.org/10.1029/2022JD036904>, 2022.
4. Szlag, M.E., D.R. Marsh, **P.T. Verronen**, A. Seppälä, and N. Kalakoski, Ozone impact from solar energetic particles cools the polar stratosphere, *Nature Commun.*, *13*, 6883, <https://doi.org/10.1038/s41467-022-34666-y>, 2022.
5. Baumann, C., Kero, A., Raizada, S. Rapp, M., Sulzer, M.P., **Verronen, P.T.**, and Vierinen, J., Arecibo measurements of D-region electron densities during sunset and sunrise: implications for atmospheric composition, *Ann. Geophys.*, *40*, 519–530, <https://doi.org/10.5194/angeo-40-519-2022>, 2022.
6. Bernhardt, P.A., M. Hua, J. Bortnik, Q. Ma, **P.T. Verronen**, M.P. McCarthy, D.L. Hampton, M. Golkowski, M.B. Cohen, D.K. Richardson, A.D. Howarth, H.G. James, and N.P. Meredith, Active Precipitation of Radiation Belt Electrons using Rocket Exhaust Driven Amplification (REDA) of Man-Made Whistlers, *J. Geophys. Res. Space*, *127*, e2022JA030358, <https://doi.org/10.1029/2022JA030358>, 2022.
7. Newnham, D.A., M.A. Clilverd, W.D.J. Clark, **P.T. Verronen**, and A.E.E. Rogers, Ground-based Ku-band microwave observations of ozone in the polar middle atmosphere, *Atmos. Meas. Tech.*, *15*, 2361–2376, <https://doi.org/10.5194/amt-15-2361-2022>, 2022
8. Sinnhuber, M., H. Nesse Tyssøy, T. Asikainen, S. Bender, B. Funke, K. Hendrickx, J. Pettit, T. Reddmann, E. Rozanov, H. Schmidt, C. Smith-Johnsen, T. Sukhodolov, M.E. Szlag, M. van de Kamp, **P.T. Verronen**, J.M. Wissing, O.S. Yakovchuk, Heppa III intercomparison experiment on medium-energy electrons, part II: Model-measurement intercomparison of nitric oxide (NO) during a geomagnetic storm in April 2010, *J. Geophys. Res. Space*, *127*, e2021JA029466, <https://doi.org/10.1029/2021JA029466>, 2021.

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